



"Advancing the Science of Lake Management"

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## Lake Wilderness 2018 Survey and Treatment Report

*Prepared by AquaTechnex, LLC.*

In 2018, AquaTechnex completed two surveys of Lake Wilderness. At each survey, the entire lake was inspected for the presence of Eurasian Watermilfoil. A native species composition survey was completed at the second survey in September. Biomass data was also collected using hydroacoustic mapping of the lake bottom. At our survey in May, a specialized underwater drone was utilized for an additional sweep of deeper water areas. This was in addition to regular rake tosses that are used to bring up plant samples for identification.

During the first AquaTechnex survey on May 22nd, the presence of Eurasian Watermilfoil (EWM) was detected at two locations on the lake. The native plant, Large Leaf Pondweed was also present along much of the Western shoreline. AquaTechnex and the City of Maple Valley took these findings into account and created three treatment polygons with prioritization of important recreational areas on the lake. The treatment areas included the public beach area, the community beach on the eastern shore, and the area along the Southwestern shoreline where most homes are on the lake. These treatment areas were all treated with a mix of two contact herbicides, Endothall (Dipotassium Salt) and Diquat Dibromide. The EWM plant found next to the boat launch was removed by hand, while the other EWM plant was included in the chemical treatment area.

On September 24th, the second survey was conducted. No Eurasian Watermilfoil was found at this second survey and native plants were found to be at reasonable, non-nuisance levels. (Please see attached survey maps and Biobase data on pages 2-4).

For 2019, surveying is again recommended to check for the presence of Eurasian Watermilfoil and to assess if any native plants are present at nuisance levels. As always, the presence of a resident or board member at the surveys is encouraged. This provides a good learning opportunity for the resident or board member and helpful information on the patterns of the lake for AquaTechnex.

Thank you for choosing AquaTechnex to assist in your lake management efforts. If you have any questions regarding this report please contact Grant Bennett at the information below.

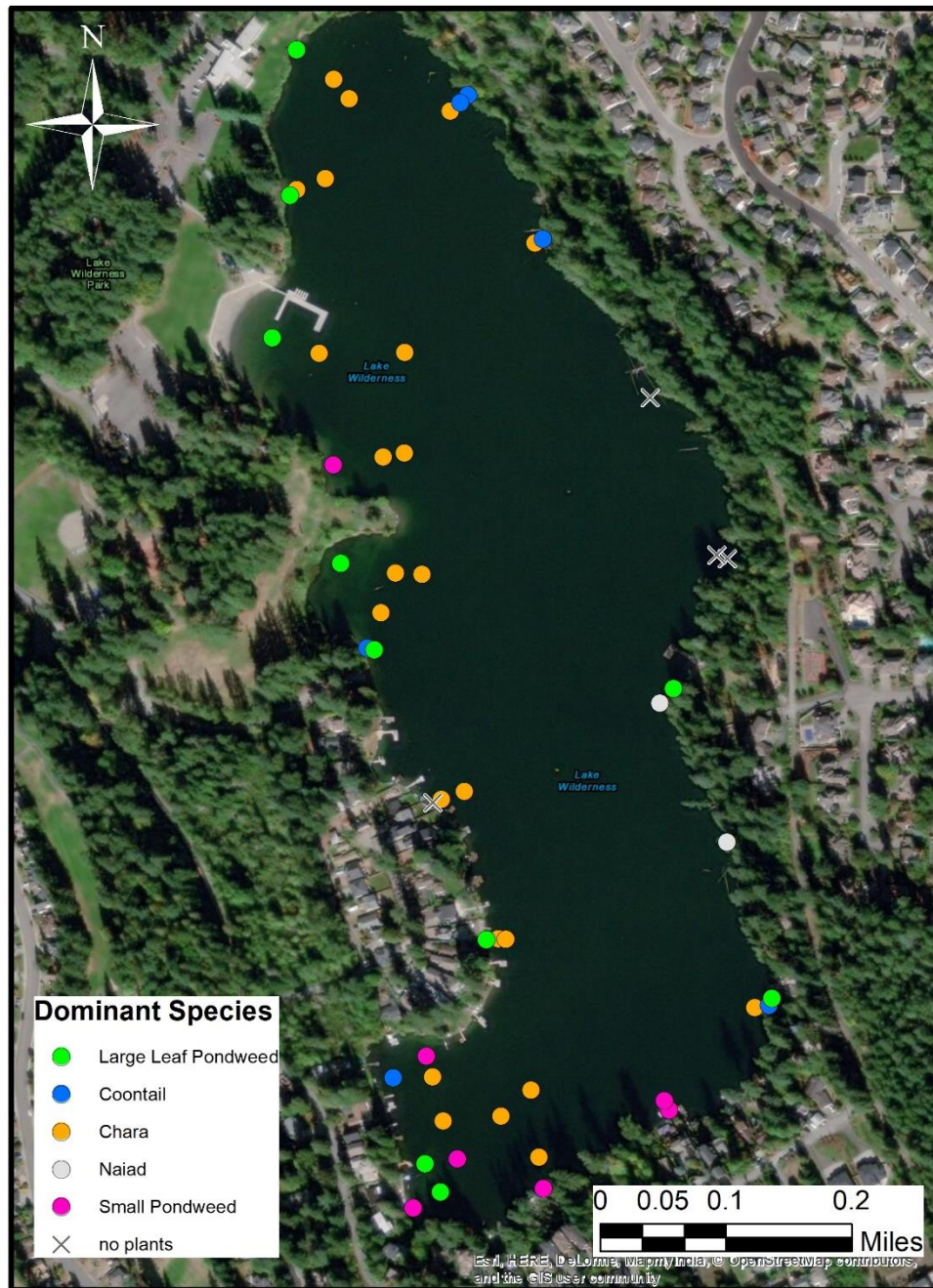
Regards,  
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## Lake Wilderness Survey 5-22-18





## Lake Wilderness Survey 9-24-18



## Lake Wilderness Biobase 9-24-18:

